

Message Text

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APPROVED BY EUR/RPM:EREHFELD
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OSD/C3I:DR. BABCOCK

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TO USMISSION NATO IMMEDIATE
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HOLD FOR OPENING OF BUSINESS

E.O. 11652: N/A

TAGS: NATO, ETEL

SUBJECT: GUIDANCE FOR JUNE 8-10 MEETING OF WGI - TACTICAL
COMMUNICATIONS - AD HOC COMMITTEE ON EQUIPMENT INTER-
OPERABILITY

1. CONFIRMING DISCUSSIONS WITH MR. GENTRY, USNATO,
YOU ARE REQUESTED TO PROVIDE REPRESENTATION TO JUNE 8-10,
1977, MEETING OF WGI (TACTICAL COMMUNICATIONS) OF THE
AD HOC COMMITTEE ON EQUIPMENT INTEROPERABILITY.
FOLLOWING GUIDANCE IS KEYED TO DOCUMENT AC/297 (WG/1)
WP/3.

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2. PARA 2.(B): INFORMATION ON CHARACTERISTICS OF
THE INPUT/OUTPUT OF THE VINSON FOR INTERCONNECTION WITH
VHF RADIO EQUIPMENT (PER FRENCH REQUEST) WAS FURNISHED
TO M. GADELLE, L'INGENIEUR EN CHEF DE L'ARMEMENT ON
MAY 10, 1977. PLEASE PASS THIS INFORMATION TO THE
FRENCH REPRESENTATIVE PRIVATELY AND FIRST. COMPLETE
INFORMATION PACKAGE IS BEING PRINTED AND WILL BE

FURNISHED FOR THE USE OF WG/1 BY THE END OF THIS MONTH.

3. PARA 2.(B): THE SECOND PART OF PARAGRAPH REQUESTS INFORMATION ABOUT ANY OTHER HIGH SPEED DIGITAL INPUT/

OUTPUT DEVICES. THIS IS MORE DIFFICULT TO ANSWER SINCE SINCGARS-V DESIGN, NOT YET FINALIZED, WILL HAVE A SIGNIFICANT IMPACT ON INTERCONNECTION CHARACTERISTICS. DATA RATES, MIL STD, IMPEDANCES, AND LEVELS OF SINCGARS-V DESIGN SPECIFICATION CAN BE OFFERED TO WG/1 FOR CONSIDERATION FOR INCLUSION IN PARA 7.2 OF ANNEX II OF AC/297 (WG/1)WP/3. APPLICABLE PORTION OF SINCGARS-V SPEC IS QUOTE: 3.3.5 DATA TRANSMISSION. THE SYSTEM SHALL BE INTEROPERABLE/COMPATIBLE WITH THE ARMY TACTICAL DATA SYSTEMS. IT SHALL PROVIDE A RESIDUAL BIT ERROR RATE PERFORMANCE OF BETTER THAN 10 TO MINUS 5 POWER (EXCEPT AS MODIFIED BY COMMUNICATIONS DISTANCE REQUIREMENT OF 3.3.3) WHEN HANDLING THE FOLLOWING TYPES OF DATA IN PLAIN TEXT OF CIPHER TEXT MODE: VOICE FREQUENCY FSK AT RATES OF UP TO 1200 BITS PER SECOND (BPS); AND DIGITAL DATA AT RATES OF 75, 150, 300, 600, 1200, 2400, 4800, 8000, AND 16000 BPS, THE CAPABILITY OF HANDLING INTERMEDIATE RATES BEING A DESIRABLE FEATURE. THERE SHALL BE NO POLARITY REVERSAL OF DIGITAL DATA OVER A SINCGARS-V RADIO LINK. IN THE DIGITAL MODE, THE INTERFACE WITH THE EXTERNAL DATA EQUIPMENT SHALL BE IN ACCORDANCE WITH MIL-STD-188-114. ANALOG DATA SHALL BE TREATED AS AN AUDIO SIGNAL. THE TRANSMITTER INPUT IMPEDANCE SHALL BE 150 OHMS UNCLASSIFIED

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UNBALANCED AND THE INTERFACE LEVEL SHALL BE IN THE RANGE OF 1 MV TO 100 MV; THE RECEIVER SHALL BE CAPABLE OF DRIVING A 600 OHM LOAD AT A FIXED LEVEL OF 0 DBM. END QUOTE.

4. PARA 2.(D): OUR PRELIMINARY ASSESSMENT IS THAT EQUIPMENT UNDER DEVELOPMENT COULD BE MADE TO CONFORM TO THE CHARACTERISTICS THAT ARE ALREADY LISTED AT THE ANNEX. THERE MAY BE PROBLEMS CONCERNING EXISTING EQUIPMENT. THE ASSESSMENT IS BEING COMPLETED AND DEFINITIVE ANSWER WILL BE AVAILABLE PRIOR TO THE NEXT MEETING OF THE WG.

5. PARA 2.(F): SUBJECT OF INTERFACE BETWEEN COMBAT NET RADIO EQUIPMENT AND SWITCHED TRUNK NETWORKS WAS DISCUSSED MOST RECENTLY BY SUB-PANEL 1 OF PANEL VIII, AC/225 (PANEL VIII/SP.1)WP/12. OUR POSITION AT THE SUB-PANEL WAS TO INDICATE THAT THE US MSE REQUIREMENT DOCUMENT IS NOT YET COMPLETED. YOU SHOULD SUGGEST

THAT BASEBAND CHARACTERISTICS IN ANNEXES I, II, AND III, WHEN DEFINED, SHOULD FORM THE BASIS FOR ANSWERING THIS QUESTION. POINT OUT THAT IT APPEARS TO BE MORE

COST EFFECTIVE TO HAVE THE BURDEN OF INTERFACE TECHNIQUES LOCATED IN THE INTERFACE POINTS OF THE SWITCHED TRUNK NETWORKS RATHER THAN THE MULTITUDE OF COMBAT NET RADIOS.

6. PARA 2.(G): IN THE AREA OF ECCM, THERE IS A GENUINE OPPORTUNITY TO FOSTER COMMONALITY/INTEROPERABILITY SINCE TECHNIQUES ARE IN EARLY DEVELOPMENT STAGES. ALSO, THE US CAN TAKE INITIATIVE IN THIS MATTER BY INVITING NATO INVOLVEMENT IN THE DEVELOPMENT. THE SINGARS-V PROGRAM IS THE BEST VEHICLE TO ACCOMPLISH THIS. THE FOLLOWING GENERAL OUTLINE OF THE PROGRAM MILESTONES SHOULD BE DISCUSSED WITH WG/1 WITH UNCLASSIFIED

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EMPHASIS ON DECISION POINTS. SINGARS-V ADVANCED DEVELOPMENT (AD) WILL COMMENCE IN JANUARY 1978 WITH AWARD TO THREE CONTRACTS FOR DESIGN AND FABRICATION OF AD PROTOTYPES. IN ADDITION, NEGOTIATIONS ARE UNDERWAY FOR ESTABLISHMENT OF MEMORANDA OF AGREEMENT (MOA) WITH FRG, THE NETHERLANDS AND THE UK FOR CONSIDERATION OF THEIR RESPECTIVE NATIONALLY DEVELOPED COMBAT NET RADIOS AS SINGARS-V CANDIDATES. TARGET DATE FOR ESTABLISHMENT OF ABOVE MOA IS DECEMBER 1977. FORMAL TESTING OF ALL CANDIDATES WILL BE CONDUCTED FROM JULY 1980 THROUGH APRIL 1981. SELECTION OF ONE OR TWO CANDIDATES FOR FULL SCALE DEVELOPMENT WILL OCCUR IN SEPTEMBER 1981. AT THE SAME TIME, AN ELECTRONIC COUNTER-COUNTER-MEASURES (ECCM) APPROACH WILL BE SELECTED. FULL SCALE DEVELOPMENT WILL TERMINATE IN NOVEMBER 1983 WITH A PRODUCTION DECISION. YOU SHOULD REPORT THAT THE US WILL BE PREPARED TO PRESENT BRIEFINGS AFTER JANUARY 1978 ON THE (A) PROPOSED ECCM DESIGNS, (B) RATIONALE FOR SELECTION OF TECHNIQUES FOR DEVELOPMENT, AND (C) TEST DATA AS AVAILABLE. AT THAT TIME WE WILL SOLICIT SUGGESTIONS AND CONSENSUS FOR A COMMON OR JOINT NATO ECCM INTEROPERABILITY APPROACH WHICH COULD BE SUPPORTED BY AND REFLECTED IN THE SINGARS-V PROGRAM. THE MAIN ATMOSPHERE TO BE CREATED IS ONE OF US WILLINGNESS TO WORK TOWARDS THE ACHIEVEMENT OF NATO INTEROPERABILITY/STANDARDIZATION IN ECCM WITHOUT DICTATING WHAT THAT SCHEME SHOULD BE.

7. GENERAL: REQUEST THAT NO NEW ITEMS BE INCLUDED IN AGENDA FOR MEETINGS BETWEEN NOW AND SEPTEMBER 1977. RATHER, EFFORTS SHOULD CONTINUE TO REFINE AND

COMPLETE AS MUCH OF THE ANNEXES AS POSSIBLE, WITH THE EXCEPTION OF THE QUESTION ON ECCM WHICH IS CLEARLY TO BE COVERED IN THE SUBSEQUENT PHASE OF THE STUDY TO BE CONTINUED BY THE TSGCEE.

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8. TO ALLOW IN DEPTH RESEARCH CONCERNING THE VALUES TO BE PLACED ON STANDARDS INCLUDED IN THE ANNEXES, YOU SHOULD PROPOSE THAT THE NEXT WG/1 MEETING SHOULD BE HELD NOT EARLIER THAN AUGUST 1977.

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